

Performance	ENGLISH	SI	
Sensitivity (±5 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	±50 g	±490 m/s <sup>2</sup>	
Frequency Range (±5 %)	144 to 300000 cpm	2.4 to 5000 Hz	[3]
Frequency Range (±10 %)	102 to 420000 cpm	1.7 to 7000 Hz	
Frequency Range (±3 dB)	48 to 600000 cpm	0.8 to 10000 Hz	
Resonant Frequency	1080 kcpm	18 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	1000 µg	9810 µm/sec <sup>2</sup>	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤5 %	≤5 %	
<b>Environmental</b>			
Overload Limit (Shock)	5000 g pk	49050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time (within 1% of bias)	≤10 sec	≤10 sec	
Discharge Time Constant	≥0.2 sec	≥0.2 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 Ohm	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	50 µg/√Hz	491 (µm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (1 kHz)	6 µg/√Hz	59 (µm/sec <sup>2</sup> /√Hz)	[1]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation (Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Diameter x Height)	1.37 in x .955 in	34.8 mm x 24.3 mm	
Weight	4.2 oz	120 gm	
Mounting Thread	1/4-28 Male	Not Applicable	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	

**Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

<b>LB - Low Bias Voltage</b>		
Output Bias Voltage	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	12 to 28 VDC	12 to 28 VDC
Measurement Range	±35 g	±343 m/s <sup>2</sup>
<b>M - Metric Mount</b>		
Supplied Accessory: Model M081A67 Mounting bolt, M6 x 1 (for Series M602 accelerometers) replaces Model 081A67		
<b>TO - Temperature Output</b>		
Temperature Output Range	+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor	5.56 mV/°F + 32	(+10 mV/°C)
Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015
Electrical Connections (Pin A)	Acceleration Output	Acceleration Output
Electrical Connections (Pin B)	Ground	Ground
Electrical Connections (Pin C)	Temperature Output	Temperature Output

**Notes**

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] See PCB Declaration of Conformance PS023 for details.

**Supplied Accessories**

081A67 Captive mounting bolt 1/4-28 x 1.12" (1)  
ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ( )

Entered: EGY	Engineer: NJF	Sales: JMF	Spec Number:
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All specifications are at room temperature unless otherwise specified.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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